

Claims

What is claimed is:

1. An isolated nucleic acid comprising the nucleotide sequence of SEQ ID NO: 2.
2. An isolated nucleic acid comprising a sequence that hybridizes under stringent conditions to a nucleic acid comprising a nucleotide sequence of SEQ ID NO: 2, or the complement thereof.
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3. A probe for use in identifying a patient at risk for progression into the malignant phenotype comprising the nucleotide sequence of SEQ ID NO: 2, or the complement thereof, or the labeled nucleotide sequence of SEQ ID NO: 2, or the complement thereof.
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4. The probe of claim 3, wherein the label is a fluorescent dye molecule, a radioisotope, a chemiluminescent molecule, or an enzyme.
5. A method for detecting whether a patient is at risk for progression into glioblastoma multiforme comprising,
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a) providing a sample from a patient;
b) adding a labeled probe comprising the nucleotide sequence of SEQ ID NO:2 to the sample or performing PCR analysis using SEQ ID NO: 5 and SEQ ID NO: 6;
c) analyzing levels of mRNA bound with the probe;
d) treating a control sample according to the method to assess the level of mRNA in a control sample; wherein the presence of increased levels of mRNA expression in the sample in an amount higher than the control sample indicates risk for progression into glioblastoma multiforme.
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6. A kit for use in detecting whether a patient is at risk for progression into glioblastoma multiforme comprising nucleotide sequence probes of SEQ ID NO:2 and instructions for use.
7. The kit of claim 6, further comprising reagents and components for use in performing assays.
8. A kit for use in detecting whether a patient is at risk for progression into glioblastoma multiforme comprising nucleotide sequence probes of SEQ ID NO: 5 and SEQ ID NO: 6 and instructions for use.
9. The kit of claim 8, further comprising reagents and components necessary to use SEQ ID NO: 5 and SEQ ID NO: 6 as primers for PCR amplification reaction.